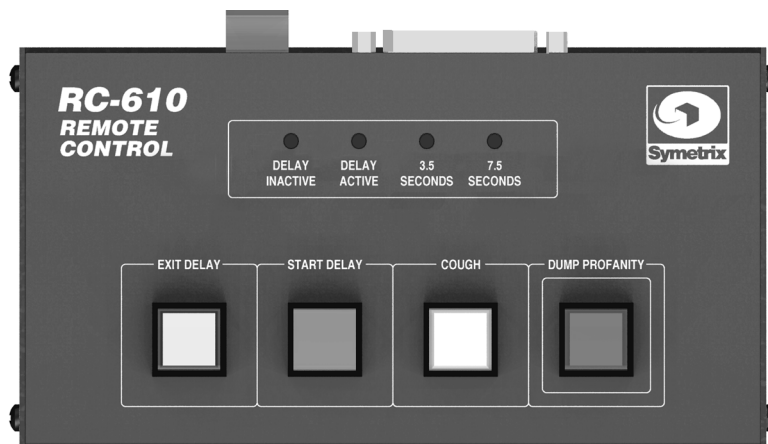


RC-610 Remote Control



U S E R G U I D E

RC-610 Remote Control User's Guide

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Before You Begin	2
Operational Safety Summary	2
Equipment Markings	2
Getting Help	2
Notational Conventions in this User Guide	2
Product Summary	3
Features	3
What Ships in the Box	3
Making Hardware Connections	4
Operating the RC-610	5
Hardware Specifications	7
Warranty	8
Service	9



Operator Safety Instructions

Please follow all warnings and instructions. Install in accordance with the manufacturer's instructions.

Operating Location Do not operate this equipment under any of the following conditions: explosive atmospheres, in wet locations, in inclement weather, improper or unknown AC mains voltage, or if improperly fused. Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Unplug this apparatus during lightning storms or when unused for long periods of time.

Stay Out of the Box To avoid personal injury (or worse), do not remove the product covers or panels. Do not operate the product without the covers and panels properly installed. Only use accessories specified by the manufacturer. Clean only with a damp cloth.

User-Serviceable Parts There are no user serviceable parts inside the RC-610. In case of failure, refer all servicing to the factory. Servicing is required when the RC-610 has been damaged in any way, such as when a power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Equipment Markings

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product (i.e., this user guide).

Getting Help

If you have technical questions beyond the scope of this guide, please contact our Technical Services Group in the following ways:

- T** US customers (425) 778-7728
International customers (425) 778-7728
from 8:00 am to 4:30 pm Pacific Time Monday through Friday
- F** (425) 778-7727
tech@symetrixaudio.com
www.symetrixaudio.com

Notational Conventions in this User Guide

Note	Identifies information that needs extra emphasis. Generally supplies extra information to help you to better use the RC-610.
Caution	Identifies information that, if unheeded, may cause damage to the RC-610 or other equipment in your system.
Warning	Identifies information that, if ignored, may be hazardous to your health or that of others.
CAPS	Controls, switches or other markings on the chassis of the RC-610.





Product Summary

The RC-610 Remote Control permits producers or on-air talent to control the main functions of the Symetrix 610 Broadcast Audio Delay, a digital delay unit for live broadcast that prevents unwanted profanity or comments from reaching the airwaves.

Features

Lighted Switches	Press lighted push-button switches to activate the Symetrix 610 Broadcast Audio Delay unit's features—Exit Delay, Start Delay, Cough, and Dump Profanity.
LED Indicators	View the operational status of the Symetrix 610: Delay Inactive, Delay Active, 3.5 Seconds and 7.5 Seconds.
Remote Access	100 feet maximum cable length distance with low impedance cable.
Opto-isolator	Avoid such complications as ground loops with this isolated circuitry. Allows connection to a cart machine or CD player.

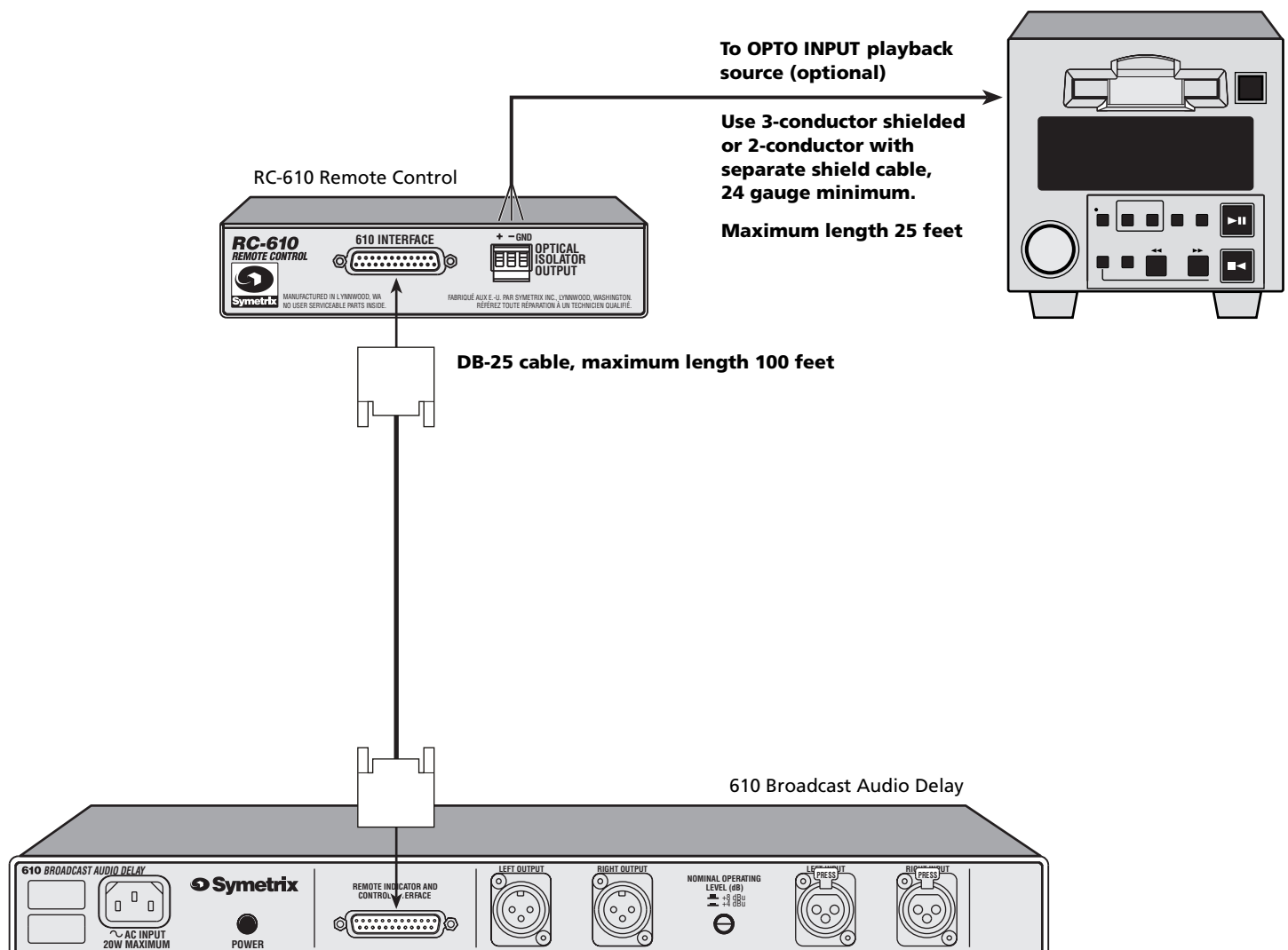
What Ships in the Box

- ☒ The RC-610 unit
- ☒ One DB-25 connector cable, 25 ft. in length
- ☒ 4 rubber feet for optional mounting to bottom of unit
- ☒ This user's guide



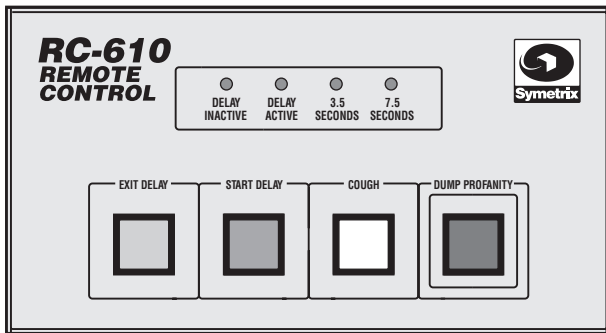
RC-610 Basic Connection

CONNECTION	CONNECTOR TYPE	WHAT IT DOES
610 INTERFACE	DB-25 Female	Enables data transfer between the RC-610 Remote Control and the 610 Broadcast Audio Delay.
OPTICAL OUTPUT ISOLATOR	Detachable Euroblock	Connects to any playback source that has an optical input connector. When you press DUMP PROFANITY, a 500 ms pulse triggers the connected device. Playback sources include an on-air delivery system, CD player, cart machine, or digital cart machine.





Front Panel Controls and Status LEDs



FEATURE	NAME	WHAT IT DOES
Status LEDs	DELAY INACTIVE	Indicates that the 610 has been forced into a bypass state. This can happen automatically as a result of the EXIT DELAY function or manually as a result of moving the STATUS button on the front panel of the 610 to the BYPASS position.
	DELAY ACTIVE	Indicates activation of the START DELAY function.
	3.5 SECONDS	Indicates that 3.5 seconds of delay has been built into the program audio.
	7.5 SECONDS	Indicates that 7.5 seconds of delay has been built into the program audio.
Push Button Controls	EXIT DELAY	Initiates the gradual reduction of delay time. Several minutes before the end of the show, press this button to have the Symetrix 610 time compress the program audio until there is nothing left in its memory (zero seconds delay). At this point the program is back in "real-time" and the 610 automatically removes itself from the signal path. This button blinks as long as delay time is decreasing. Its light switches off when zero delay is achieved.



Front Panel Controls and Status LEDs *continued*

FEATURE	NAME	WHAT IT DOES
Push Button Controls <i>continued</i>	START DELAY	Initiates the gradual increase of delay time. Press this button when a radio talk show begins. The light of this button blinks for as long as delay time is increasing. The light shines steady once full delay time (7.5 seconds) is achieved. See Appendix C in the Symetrix 610 Broadcast Audio Delay User's Guide for more information.
	COUGH	Mutes the incoming signal while allowing the output signal to play (uninterrupted) from the 610's memory. You can cough, have a quick drink of water, or make a comment to the producer or engineer without any perceptible program interruption. When you press this button, the 610 plays from memory. If you press this button for a period of time that exceeds the amount of delay available, then there will be dead air for the excess (muted output). When you release the button, the 610 automatically begins to refill the memory.
	DUMP PROFANITY	Plays delayed programming stored in memory to prevent unwanted audio from reaching the airwaves. As the program begins, the 610 gradually and unobtrusively delays or "stretches out" the program until 7.5 seconds of stereo audio is stored in memory. When you press this button, the memory is cleared. Then the 610 automatically begins to stretch (time expand) the program audio again until it attains the full 7.5 second delay. See Appendix C of the 610 Broadcast Audio Delay User's Guide for details on how to select between a full memory dump or a half memory—3.75 second—dump.



Connections

Input/Output
Output

DB-25 female
Euroblock, detachable

Physical

Size (H x W x D)
Shipping Weight

1.5 in. x 7.15 in. x 3.85 in. / 3.81 cm x 18.16 cm x 9.78 cm
1.14 lbs.

Electrical

Power Requirements

Powered from Symetrix 610 Broadcast Audio Delay

In the interest of continuous product improvement, Symetrix, Inc. reserves the right to alter, change, or modify these specifications without prior notice.



Warranty

Symetrix, Inc. expressly warrants to the original purchaser ("Buyer"), subject to the terms and conditions set forth below, that the Product will be free from defects in material and workmanship as a result of normal commercial use for one (1) year from the date of purchase. This warranty will be automatically extended (subject to the additional limitations set forth below) for an additional four years if the Warranty Registration is completed and returned to Symetrix (or completed online) within thirty (30) days of the date of delivery.

Symetrix's warranty obligation is limited to the repair, replacement, or refund at Symetrix's sole discretion, of the part or parts of the Product which may thus prove defective in materials or workmanship within one year from date of purchase (or five years from the date of purchase if Buyer has registered its purchase as provided above) under normal use and which our examination discloses to our satisfaction to be thus defective, provided that Buyer gives Symetrix prompt notice of its warranty claim and satisfactory proof thereof.

Symetrix will make every reasonable effort to ensure that parts are available to support the repair of our products under warranty. In the event that a product or component part thereof becomes obsolete, unavailable or irreparable, Symetrix

reserves the right to refund a prorated portion of the purchase price in full satisfaction of all warranty claims. A refund of the purchase price is prorated as follows: 100% through year one, 80% through year two, 60% through year three, 40% through year four and 20% through year five.

In order to serve you better we request that the Buyer shall, prior to shipping Product to Symetrix for warranty service, contact Symetrix and secure a Return Authorization Number that shall be included with the returned Product. This will facilitate our efforts to keep track of your Product and process your warranty repair as quickly as possible. Buyer will prepay all freight charges to ship the Product to Symetrix for warranty inspection and service. This warranty is subject to Symetrix's inspection of the Product at its facilities and, upon Symetrix's request, satisfactory proof of purchase (dated copy of original retail dealer's invoice.)

Symetrix reserves the right to effect repairs to the product with reconditioned components/parts. Products once repaired under warranty will be shipped to Buyer freight prepaid by Symetrix via United Parcel Service (surface) or any similar shipper, to any location designated by buyer within the Continental United States. At Buyer's request and expense Product will be returned via airfreight. Outside the continental United States, repaired or replaced products will be returned freight collect.

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SUPPLIED BY US. THE TERM "ORIGINAL PURCHASER," AS USED IN THIS WARRANTY SHALL BE DEEMED TO MEAN THAT PERSON OR COMPANY THAT ORIGINALLY PURCHASED THE PRODUCT.

This Symetrix product has been designed and manufactured for use in professional and studio audio systems and is not intended for other usage. This warranty only applies to Buyers using the Product in professional and studio audio systems. With respect to others, including but not limited to consumers for personal, family, or household use, **Symetrix expressly disclaims all warranties, including but not limited to warranties of merchantability and fitness for a particular purpose and the express warranties as otherwise provided herein.**

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Symetrix's total liability on any claim, whether in contract, tort (including negligence) or otherwise arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair, replacement or use of Product will not exceed the purchase price of the Product or any part thereof which gives rise to the claim. In no event will Symetrix be liable for any incidental or consequential damages including but not limited to damage for lost revenue, cost of capital, claims of customers for service interruptions or failure to supply, and costs and expenses incurred in connection with labor, overhead, transportation, installation or removal of products or substitute facilities or supply houses as a result of Product failure.

This limited warranty gives Buyer certain rights. Buyer may have additional rights under applicable law.



Where to Get Service

If outside of the USA

If you have determined that your RC-610 requires repair services and you live outside of the United States, please contact your local Symetrix dealer or distributor for instructions on how to obtain service.

If inside the USA

Symetrix will perform in-warranty or out-of-warranty service on any product it has manufactured for a period of five years from date of manufacture. If you reside in the USA, then proceed as follows:

To Get Your RC-610 Unit Repaired (US Customers Only)

- 1 Call our Technical Services Group for a return authorization (RA) number. **(425) 778-7728**, Monday through Friday, 8:00 am to 4:30 pm Pacific Time
Have your serial number ready to give to the service representative. You will find it on the bottom of the unit.
- 2 Pack the unit in its original packaging materials.
- 3 Include your name, address, daytime telephone number, and a brief statement of the problem.
- 4 Write the RA number on the outside of the box.
- 5 Ship the unit to Symetrix, freight prepaid. **We do not accept freight collect shipments.**

Symetrix, Inc.

6408 216th St. SW

Mountlake Terrace WA 98043

In-Warranty Repairs

Repairs made in-warranty will cost you only one-way freight charges. We'll prepay the return (surface) freight. Of course, if the repair is due to operator error, parts and labor will be charged. If there are charges for the repair costs, you will pay for the return freight. All charges will be COD unless you have made other arrangements (prepaid, Visa, or Mastercard).

Out-of-Warranty Repairs

If the warranty period has passed, you'll be billed for all necessary parts, labor, packaging materials, and freight charges.

If You Don't Have Factory Packaging Materials

If you send us your product in substandard packaging, we will charge you for factory shipping materials. If you don't have the factory packaging materials, do the following:

- 1 Select an oversized carton.
- 2 Wrap the unit in a plastic bag, and surround it with bubble-wrap.
- 3 Pack the box full of Styrofoam peanuts. Be sure there is enough clearance in the carton to protect the rack ears.

We will return the unit in Symetrix packaging.

301	Low Distortion Compressor/Limiter
302	Dual Microphone Preamplifier
303	Interface Amplifier
304	Headphone Amplifier
305	Distribution Amplifier (1x4)
306	Preamp/Ducker
307	Dual Isolation Transformer
308	VCA Volume Control/Loudness EQ
372	SPL Computer
402	Dual Output Delay
420	Stereo Power Amplifier
421M	AGC-Leveler
422	Stereo AGC-Leveler
440	Foreground Audio Controller
450	Dual Zone Priority Mixer
501	Peak-RMS Compressor/Limiter
501-01	Peak-RMS Compressor/Limiter
506E	Headphone Amplifier
527E	Voice Processor
528E	Voice Processor
531E	Graphic Equalizer
532E	Graphic Equalizer
533E	Graphic Equalizer
551E	5-Band Parametric EQ
552E	Dual 5-Band Parametric EQ
562E	Windowing Expander/Gate
565E	Dual Compressor/Limiter/Expander
571	SPL Computer
571S	SPL Computer Slave
572	SPL Computer
581E	Distribution Amplifier (4x4)
606	Delay F/x Machine
610	Broadcast Audio Delay
628	Digital Voice Processor
9022	2x2 DSP Engine
HR-1	Headphone Remote for 304 and 506E
RC-1	628 Remote Control
RC-2	440 Remote Control
RC-610	Remote Control